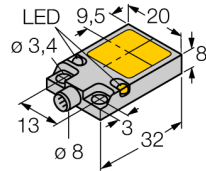
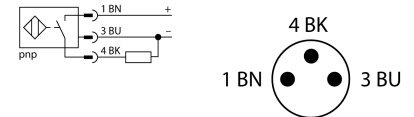


## Inductive sensor BI8U-Q08-AP6X2-V1131



- Rectangular, height 8 mm
- Active face on top
- Metal, die-cast zinc
- Connector with snap lock
- Factor 1 for all metals
- Increased switching distance
- Protection class IP68
- Resistant to magnetic fields
- Mountable on metal
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- Flange connector, Ø 8 mm

### Wiring Diagram



### Functional principle

Inductive sensors detect metal objects contactless and wear-free. Due to the patented multi-coil system, *uprox*®+ sensors have distinct advantages over conventional sensors. They excel in largest switching distances, maximum flexibility and operational reliability as well as efficient standardization.

<b>Type designation</b>	BI8U-Q08-AP6X2-V1131
Ident no.	1662005
<b>Rated switching distance <math>S_n</math></b>	8 mm
Mounting conditions	Flush
Secured operating distance	$\leq (0,81 \times S_n)$ mm
Repeat accuracy	$\leq 2\%$ of full scale
Temperature drift	$\leq \pm 10\%$
Hysteresis	3...15 %
Ambient temperature	-25...+70 °C
<b>Operating voltage</b>	10...30 VDC
Residual ripple	$\leq 10\% U_{s\text{}}$
DC rated operational current	$\leq 200$ mA
No-load current $I_0$	$\leq 15$ mA
Residual current	$\leq 0,1$ mA
Isolation test voltage	$\leq 0,5$ kV
Short-circuit protection	yes/ Cyclic
Voltage drop at $I_s$	$\leq 1,8$ V
Wire breakage/Reverse polarity protection	yes/ Complete
Output function	3-wire, NO contact, PNP
Switching frequency	0.25 kHz
<b>Design</b>	Rectangular, Q08
Dimensions	32 x 20 x 8 mm
Housing material	Metal, GD-Zn, Nickel-plated
Active area material	Plastic, PP, yellow
Electrical connection	Connectors, Ø 8 mm
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C
Packaging unit	1
<b>Power-on indication</b>	LED, Green
Switching state	LED, Yellow

**Inductive sensor**  
**BI8U-Q08-AP6X2-V1131**

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Distance D	40 mm
Distance W	24 mm
Distance G	48 mm

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Width active area B	17 mm
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